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CLERK  
U.S. BANKRUPTCY COURT  
DISTRICT OF DELAWARE

Tom L. Lewis

Lewis & Slovak, P.C.  
P. O. Box 2325  
Great Falls, MT 59403  
(406) 761-5595

**IN THE UNITED STATES BANKRUPTCY COURT  
FOR THE DISTRICT OF DELAWARE**

In re:	)	Chapter 11
	)	
W.R. GRACE & CO., <u>et al</u>	)	Case No. 01-01139 (JKF)
	)	(Jointly Administered)
Debtors.	)	
	)	Claim No. 00006094
	)	
	)	

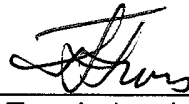
**RESPONSE TO DEBTORS' SECOND OMNIBUS  
OBJECTION TO CLAIMS (NON-SUBSTANTIVE)**

On behalf of claimant, Duane Edward Lindsay (Claim No. 00006094), his attorney, Tom L. Lewis of Lewis & Slovak, P.C., objects to Debtors' Second Omnibus Objection to Claims (Non-Substantive), dated July 21, 2003, and received August 7, 2003, on the basis of improper notice and further responds as follows:

1. Claimant's claim is with respect to asbestos contamination from a Grace product in or on the property.
2. Claimant's claim is based upon the findings of the U.S. Environmental Protection Agency in its Administrative Record and supplement, test results, and other documentation, as well as information obtained from other sources, including but not limited to local and national news reports, articles and meetings.
3. Claimant consented to the production and release of supporting documentation, in the possession of the U.S. Environmental Protection Agency, to Grace and Grace's representatives at the time of submission of claim in March, 2003.
4. Claimant has attached supporting documentation, which was not available at the time the proof of claim was filed.

Respectfully submitted this 8th day of August, 2003.

Lewis & Slovak, P.C.

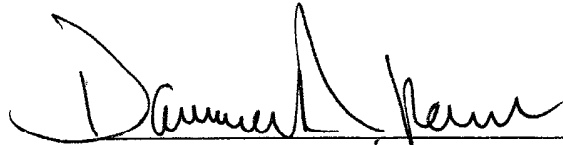
By:   
\_\_\_\_\_  
Tom L. Lewis  
P.O. Box 2325  
Great Falls, MT 59403  
(Attorneys for Claimant)

**CERTIFICATE OF SERVICE**

I hereby certify that a true and legible copy of the foregoing Response to Debtors' Second Omnibus Objection to Claims (Non-Substantive) was served on the 8th day of August, 2003, by fax and by first class mail, upon the following:

James W. Kapp III, Janet S. Baer and Christian J. Lane  
Kirkland & Ellis, LLP  
200 East Randolph Drive  
Chicago, IL 60601

Scott E. McFarland  
Pachulski, Stang, Ziehl, Young, Jones & Weintraub, P.C.  
919 North Market Street 16th Floor  
Wilmington, DE 19801

  
\_\_\_\_\_

BD- 001049

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8  
999 18<sup>th</sup> STREET, SUITE 300  
DENVER, CO 80202

CONSENT FOR ENTRY AND ACCESS TO PROPERTY

Scott Lindsey

Address:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Phone: 293-7692

Address of Property for which consent for entry and access is being granted:

412 Paine Ave  
\_\_\_\_\_  
\_\_\_\_\_

Relationship to property: Owner  
(i.e., owner, tenant, etc.)

Duane & Donna  
Lindsey  
owners

I, the undersigned, am the owner, their representative, or otherwise control the real property at the location described above. The Environmental Protection Agency (EPA) has requested entry and access to my property pursuant to its response and enforcement responsibilities under the Comprehensive Environmental Response, Compensation and Liability Act as amended (Superfund), 42 U.S.C. 9601 et seq.

I consent to officers, employees, and authorized representatives of the EPA, including their authorized contractors, entering and having continued access to my property for the following purposes:

1. Visually inspecting the property, including the interior and exterior of any home or any other structures on the property;
2. the taking of such soil, bulk, or dust samples as may be determined to be necessary;
3. the taking of actions to mark or temporarily cover exposed vermiculite.

This written permission is given by me voluntarily with knowledge of my right to refuse and without threats or promises of any kind. I certify that this Consent for Entry and Access is entered into voluntarily and constitutes an unconditional consent and grant of permission for access to the property by officers, employees, and authorized representatives of EPA at reasonable times.

7-20-02  
Date

Scott Lindsey  
Signature

**EPA Information Center**  
Office Copy

**LIBBY ASBESTOS PROJECT**  
Contaminant Screening Study

**Primary Structure and Property Assessment Information Field Form**

NC 0200  
BD- 001049

Field Logbook No.: 100076 Page No: 126 Site Visit Date: 7-10-02  
Address: 412 Palmer Ave Structure Description: HQ-2  
Occupant: Scott Lindsey Phone Number: 293-7092  
Owner (if different than occupant): Douglas D. Lindsey Phone Number: 293-7092  
Sampling Team: Mike Caffrey and Brian Clifton  
Field Form Check Completed by (100% of forms): Reginald Clifton  
Screening Field Check Completed by (2% of forms): Reginald Clifton

Data Item	Value	Notes
<b>HOUSE ATTRIBUTES</b>		
Property Description	<input checked="" type="radio"/> Residential <input type="radio"/> Industrial <input type="radio"/> Commercial	
Surrounding Land Use	<input checked="" type="radio"/> Residential <input type="radio"/> Industrial <input type="radio"/> Commercial <input type="radio"/> School <input type="radio"/> Mining Other: _____	
Year of Construction	<u>1980</u> <input type="radio"/> Unknown	
Square Footage	<u>2200</u>	
Construction Material	<input checked="" type="radio"/> Wood frame <input type="radio"/> Masonry/Stone Other: _____	
Number of Floors Above Ground	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 Other: _____	
Number of Rooms Per Floor Above Ground	1: <u>8</u> 2: _____ 3: _____ Other: _____	
Basement	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Heating Source	<input checked="" type="radio"/> Wood/Coal <input checked="" type="radio"/> Electric <input type="radio"/> Propane/Gas Other: _____	
Heat Distribution	<input checked="" type="radio"/> Forced air <input checked="" type="radio"/> Radiant Other: _____	

CSS INFORMATION FIELD FORM (continued)

Address: 412 Palmer Ave

BD# 001049

Data Item	Value	Notes
<b>OCCUPANT INFORMATION</b>		
Number of Adults/Employees	0 1 2 <u>3</u> 4 5-15 16-20 21-30 >30	
Number of Children	<u>0</u> 1 2 3 4 Other: _____	
Years at Location	<1 1-5 5-10 10-15 <u>&gt;15</u>	
Was the residence/building remodeled?	<u>Yes</u> No If yes: When (years): <u>&lt;2</u> 2-5 >5 Where: Attic <u>Living Areas</u> Garage Basement Other: _____	
Has resident/business purchased any Libby vermiculite materials from W.R. Grace in the past?	Yes <u>No</u>	
Has the property at this location been used for a for-profit enterprise of distributing, treating, storing, or disposing of Libby vermiculite?	Yes <u>No</u>	
Are there any known areas of exposed vermiculite?	Yes <u>No</u> If yes: Where: Ceiling Walls Floors Attic Other: _____	

CSS INFORMATION FIELD FORM (continued)

Address: 412 7th St. Permenter Ave  
412

BD# 001049

Data Item	Value	Notes
<b>INDOOR ASSESSMENT</b>		
Vermiculite Insulation Past or Present	Attic: Yes <input checked="" type="radio"/> No NA Unknown Walls: Yes <input checked="" type="radio"/> No NA Unknown Basement: Yes <input checked="" type="radio"/> No NA Unknown Crawl Space: Yes No <input checked="" type="radio"/> NA Unknown Other: _____	Visual confirmation of current presence or absence required for attic.
Evidence of Physical Damage?	Yes <input checked="" type="radio"/> No	
Evidence of Water Damage?	Yes <input checked="" type="radio"/> No	
<b>OUTDOOR ASSESSMENT</b>		
Libby Amphibole Sources Present	Garden: <input checked="" type="radio"/> Yes No NA Yard: Yes <input checked="" type="radio"/> No NA Stockpiles: Yes No <input checked="" type="radio"/> NA Other: _____	
Proximity to Other Properties with Potential Sources of Libby Amphiboles	Next door Within same block Other: _____ <input checked="" type="radio"/> Unknown	

CSS INFORMATION FIELD FORM (continued)

Address: 412 Palmerston Ave

BD# 60089

Data Item	Value	Notes
<b>EXPOSURE ASSESSMENT</b>		
Type and Frequency of Activity Near Vermiculite Material - Indoor	Frequency: <ul style="list-style-type: none"> <li>Once a day</li> <li>Once a week</li> <li>Once a month</li> <li>Once a year</li> <li><u>Not Applicable</u></li> </ul>	Not Applicable applies when no vermiculite is present on the property.
	Duration of Contact: <ul style="list-style-type: none"> <li>&lt;1 hour</li> <li>1-2 hours</li> <li>2-4 hours</li> <li>&gt;4 hours</li> <li><u>Not Applicable</u></li> </ul>	
	Extent of Contact: <ul style="list-style-type: none"> <li>Heavy</li> <li>Moderate</li> <li>Light</li> <li><u>Not Applicable</u></li> </ul>	
Type and Frequency of Activity Near Vermiculite Material - Outdoor	Frequency: <ul style="list-style-type: none"> <li>Once a day</li> <li>Once a week</li> <li>Once a month</li> <li><u>Once a year</u></li> <li>Not Applicable</li> </ul>	Not Applicable applies when no vermiculite is present on the property. <i>vermiculite found in garden, but resident doesn't keep garden up anymore</i>
	Duration of Contact: <ul style="list-style-type: none"> <li><u>&lt;1 hour</u></li> <li>1-2 hours</li> <li>2-4 hours</li> <li>&gt;4 hours</li> <li>Not Applicable</li> </ul>	
	Extent of Contact: <ul style="list-style-type: none"> <li>Heavy</li> <li>Moderate</li> <li><u>Light</u></li> <li>Not Applicable</li> </ul>	

CSS INFORMATION FIELD FORM (continued)

Address: 412 Parmer Ave

BD# 901649

Data Item	Value	Notes
<b>CONTAMINANT SCREENING STUDY ASSESSMENT</b>		
<b>Occupant Information</b>		
Is there any knowledge of former miners, close relative of miners, or any highly exposed persons living or visiting the property?	Yes <input type="radio"/> No <input checked="" type="radio"/> Unknown	
Is the resident, past or present, diagnosed with an asbestos related disease?	Yes <input checked="" type="radio"/> No <input type="radio"/> Unknown	
<b>Indoor Information</b>		
Does the interior have Zonolite attic insulation?	Yes <input type="radio"/> No <input checked="" type="radio"/> Unknown	
Did the Interior ever have Zonolite attic insulation?	Yes <input type="radio"/> No <input checked="" type="radio"/> Unknown NA	NA applies if attic currently has ZAI.
Are there vermiculite additives in any of the building materials?	Yes <input type="radio"/> No <input checked="" type="radio"/> Unknown	
<b>Outdoor Information</b>		
Is there any evidence of primary source materials at or near the property?	Yes <input checked="" type="radio"/> No <input type="radio"/> Unknown	
Could this have been tracked indoors or otherwise spread outdoors on the property?	Yes <input type="radio"/> No <input type="radio"/> Unknown <input checked="" type="radio"/>	
<b>Overall Assessment</b>		
Are primary source materials present at the property?	Yes <input checked="" type="radio"/> No <input type="radio"/>	
Where are primary source materials located?	Inside <input type="radio"/> Outside <input checked="" type="radio"/> Both NA	<u>garden</u>
<b>ADDITIONAL INFORMATION</b>		



CSS INFORMATION FIELD FORM (continued)

Address: 412 Palmer Ave

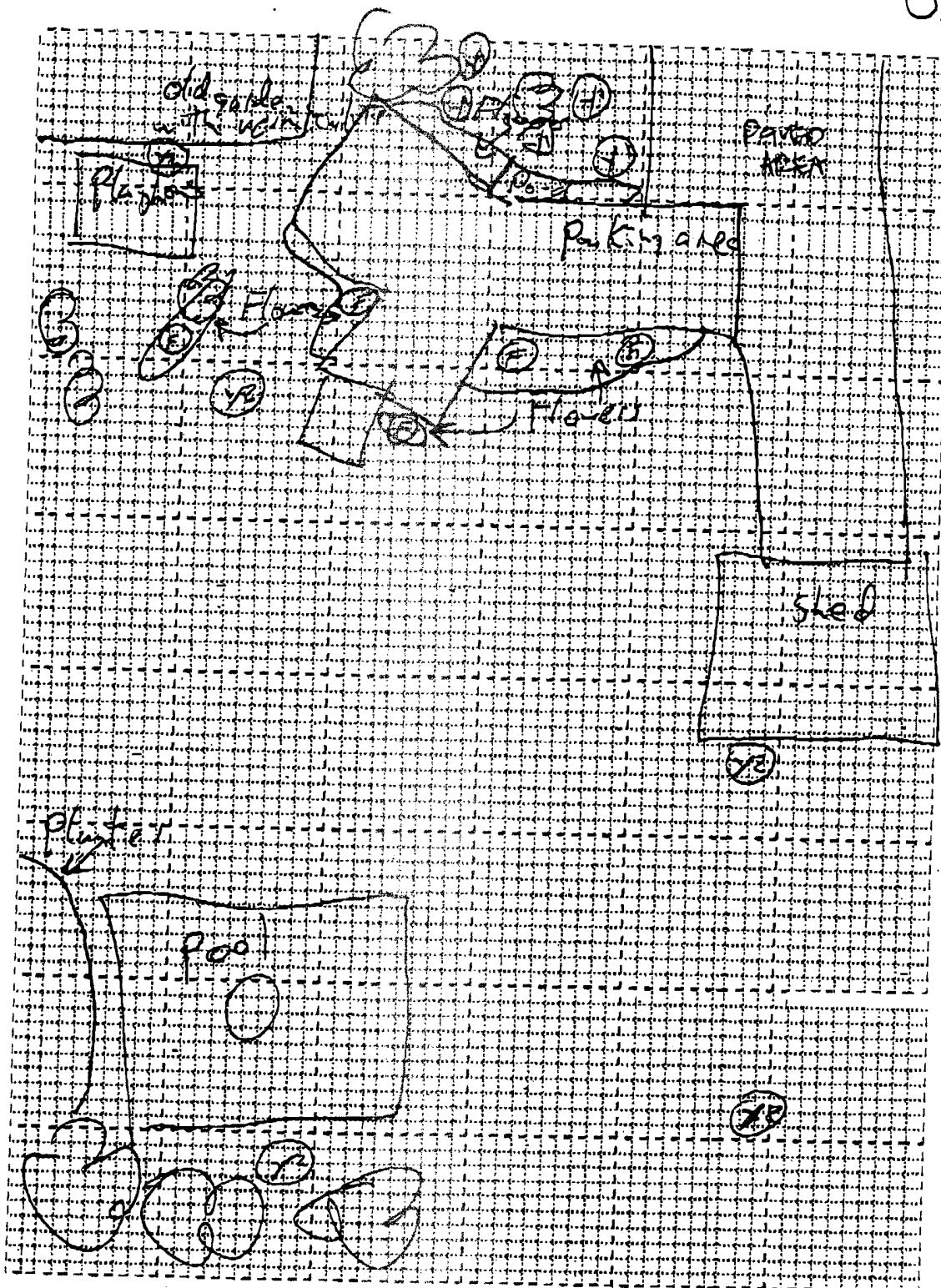
BD# 001049

### FIELD DIAGRAM OF PROPERTY

**FIELD DIAGRAM OF PROPERTY**  
Identify important features (i.e. drainage, trees, gardens, structures, flowerbeds, utility poles, known underground utilities, suspected Libby amphibole source areas, sample locations, etc).

NOT TO SCALE

○



CSS INFORMATION FIELD FORM (continued)

Address: 412 Palmer Ave

BD# 001045

FIELD DIAGRAM OF PRIMARY STRUCTURE

Floor of House (circle): First Second Third Basement

Include approximate dimensions of rooms and floor covering type. Use more than one diagram if needed. Completed only if ZAI is present.

Scale: 1/10" = 1 foot

126 Lindsey, Duane + Donatt 30-001049  
Location 412 Parmenter Ave Date 07-22-02  
Project / Client Waco Asbestos / EPA HVT

1100 arrived at residence Owners son  
signed consent form One floor +  
basement. Shed is insulated Owner  
stated may be in garden where  
is vermiculite. Confirmed vermiculite  
present in garden. No visible  
vermiculite was observed inside  
house. Attic of house has fiberglass  
Shed has fiberglass insulation in  
attic as well.

07-22-02 RC



Sheet No.: CSS (S) - 001979

# CONTAMINANT SCREENING STUDY

## FIELD SAMPLE DATA SHEET FOR SOIL

Scenario No.: U/A Field Logbook No: 100083 Page No: 108 Sampling Date: 7/24/02Address: 412 Parmenter Ave Owner: Duane E. Danna 367/25/02  
Scott LindseyBusiness Name: -Land Use: (circle) Residential School Commercial Mining Roadway Other ( )Sampling Team: (circle) CDM PES Other - Names: Walter Smith's Brian Holtz

Data Item	Sample 1	Sample 2	Sample 3
Index ID	<b>CS- 02804</b> <u>BAH</u> <u>7/24/02</u>		
Location ID	<b>SP- 113292</b>		
Sample Group	<u>Flower beds Duplicate</u>		
Location Description (circle)	<u>Back yard</u> Front yard Side yard Other <u>-</u>	Back yard Front yard Side yard Other <u>-</u>	Back yard Front yard Side yard Other <u>-</u>
Category (circle)	<u>FS</u> <u>FD of CS-02803</u> Field Blank (lot or equipment)	FS FD of <u>-</u> Field Blank (lot or equipment)	FS FD of <u>-</u> Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other <u>-</u>	Surface Soil Other <u>-</u>	Surface Soil Other <u>-</u>
Type (circle)	<u>Grab</u> <u>Comp. # subsamples 5</u>	Grab Comp. # subsamples <u>-</u>	Grab Comp. # subsamples <u>-</u>
Sample Time	<u>1500</u>		
Top Depth (in.)	<u>0</u>		
Bottom Depth (in.)	<u>6</u>		
Grid, Quadrant, Section	<u>-</u>		
Field Comments	<u>BD- 001049</u>		
	Entered <u>-</u> Validated <u>-</u>	Entered <u>-</u> Validated <u>-</u>	Entered <u>-</u> Validated <u>-</u>

Field Team	Initial
Completed by	<u>BAH</u>
QC by	<u>WS</u>

108

Location 412 Parmenter Ave Date 7/24/02  
 Project / Client Libby Asbestos - Volpe / EPA Region 8  
Scott Lindsey BD-001049

1435 Arrive @ 412 Parmenter Ave. Walk property and decide to sample the front yard, back yard, flower beds and <sup>BAH 7/24/02</sup> old flower bed duplicate Vermiculite was seen in the old garden in the back yard. Walter Smith is collecting samples in modified level D PPE. All sample areas are sprayed with water before collecting samples.

Front

CS- 02801 <sup>BAH 7/24/02</sup> SP- 113290

Yard

1440 Field Data Sheet 001278 COC 003011

Back

CS- 02802 <sup>BAH 7/24/02</sup> SP- 113291

Yard

1450 Field Data Sheet 001278 COC 003011

Flower bed

CS- 02803 <sup>BAH 7/24/02</sup> SP- 113292

1500

Field Data Sheet 001278 COC 003011

Flower bed Duplicate

CS- 02804 <sup>BAH 7/24/02</sup> SP- 113292

1500

Field Data Sheet 001279 COC 003011

Vermiculite was noticed in back yard adjacent to the old garden. Photos were taken of the old garden and back yard. CIPS File T3E07242

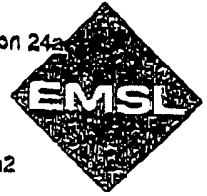
BAH

7/24/02

B. Lindsey 7/24/02

USEPA REGION 8 LIBBY SITE INVESTIGATION v24a  
 TEM Asbestos Structure Count - ISO 10312

Version 24a



SAMPLE ID

Status Analyzed  
 EPA Sample Number 1D-00519  
 QA Type Not QA  
 Lab Sample Number 270300706-0005  
 Sample Type Dust  
 Category Field  
 Prep Indirect  
 Counting Rules 10312

PARAMETERS

Effective filter area 1295.0 mm2  
 Indirect factor 2.50E-01  
 Number of Grid Openings (amphibole) 10  
 Number of Grid Openings (chrysotile) 10  
 Grid opening area 0.0059 mm2  
 Volume (L) or Area (cm2) 300 cm2  
 Sensitivity (amphibole) 2.93E+02 s/cm2  
 Sensitivity (chrysotile) 2.93E+02 s/cm2

COUNTS (based on countable structures only)

Class	LA	OA	C	PCME(all)	PCME(asb)
a	0	0	0		
b	0	0	0		
c	0	0	0		
d	0	0	0		
e	0	0	0		
f	0	0	0		
Total	0	0	0	0	0

Check OK OK OK  
 Grand total 0 OK

LOADING (s/cm2)

Class	LA	OA	C	PCME(all)	PCME(asb)
a	<DL	<DL	<DL		
b	<DL	<DL	<DL		
c	<DL	<DL	<DL		
d	<DL	<DL	<DL		
e	<DL	<DL	<DL		
f	<DL	<DL	<DL		
Total	<DL	<DL	<DL	<DL	<DL

RISK (air only)

Class	LA	OA	C	PCME(all)	PCME(asb)
a					
b					
c					
d					
e					
f					
Total					

Toxicity factors

Berman and Crump Feb 15, 1999

Type	Amphiboles		Chrysotile	
length (um)	5-10	>10	5-10	>10
Unit Risk (f/cc)-1	5.74E-02	1.89E+01	2.20E-03	6.98E-01

IRIS (PCME)

Unit Risk (f/cc)-1	0.23
--------------------	------

Type	Class	Length	Width	Aspect ratio
LA = Libby-type amphibole	a			<5
OA = Other amphibole	b	<5		>= 5
C = Chrysotile	c		>5	>= 5
	d	>= 5 to < 5	<= 5	>= 5
	e	5 to 10	<= 5	>= 5
	f	>10	<= 5	>= 5

Lindsey  
 412 Parmenter Ave  
 of HS

USEPA REGION 8 LIBBY SITE INVESTIGATION v24a  
 TEM Asbestos Structure Count - ISO 10312

Version 24a



SAMPLE ID

Status Analyzed  
 EPA Sample Number 1D-00520  
 QA Type Not QA  
 Lab Sample Number 270300706-0006  
 Sample Type Dust  
 Category Field  
 Prep Indirect  
 Counting Rules 10312

PARAMETERS

Effective filter area  
 Indirect factor  
 Number of Grid Openings (amphibole)  
 Number of Grid Openings (chrysotile)  
 Grid opening area  
 Volume (L) or Area (cm2)  
 Sensitivity (amphibole)  
 Sensitivity (chrysotile)

1295.0 mm2  
 2.50E-01  
 10  
 10  
 0.0059 mm2  
 300 cm2  
 2.93E+02 s/cm2  
 2.93E+02 s/cm2

COUNTS (based on countable structures only)

Class	LA	OA	C	PCME(all)	PCME(asb)
a	0	0	0		
b	0	0	0		
c	0	0	0		
d	0	0	0		
e	0	0	0		
f	0	0	0	0	0
Total	0	0	0		
Check	OK	OK	OK		
Grand total	0	OK			

Lindsay  
 412 Parmenter Ave  
 house GF HTW

LOADING (s/cm2)

Class	LA	OA	C	PCME(all)	PCME(asb)
a	<DL	<DL	<DL		
b	<DL	<DL	<DL		
c	<DL	<DL	<DL		
d	<DL	<DL	<DL		
e	<DL	<DL	<DL		
f	<DL	<DL	<DL	<DL	<DL
Total	<DL	<DL	<DL	<DL	<DL

RISK (air only)

Class	LA	OA	C	PCME(all)	PCME(asb)
a					
b					
c					
d					
e					
f					
Total					

Toxicity factors

Berman and Crump Feb 15, 1999

Type	Amphiboles		Chrysotile	
length (um)	5-10	>10	5-10	>10
Unit Risk (Ucc)-1	5.74E-02	1.89E+01	2.20E-03	6.86E-01

IRIS (PCME)

Unit Risk (Ucc)-1	0.23
-------------------	------

Type	Class	Length	Width	Aspect ratio
LA = Libby-type amphibole	a			<5
OA = Other amphibole	b	<5		>= 5
C = Chrysotile	c		>.5	>= 5
	d	>=.5 to < 5	<=.5	>= 5
	e	5 to 10	<=.5	>= 5
	f	>10	<=.5	>= 5



USEPA REGION 8 LIBBY SITE INVESTIGATION v24a  
 TEM Asbestos Structure Count - ISO 10312

Version 24a



SAMPLE ID

Status Analyzed  
 EPA Sample Number 1D-00461  
 QA Type Not QA  
 Lab Sample Number 270300706-0001  
 Sample Type Dust  
 Category Field  
 Prep Indirect  
 Counting Rules 10312

PARAMETERS

Effective filter area 1296.0 mm2  
 Indirect factor 1.00E-01  
 Number of Grid Openings (amphibole) 10  
 Number of Grid Openings (chrysotile) 10  
 Grid opening area 0.0059 mm2  
 Volume (L) or Area (cm2) 300 cm2  
 Sensitivity (amphibole) 7.32E+02 s/cm2  
 Sensitivity (chrysotile) 7.32E+02 s/cm2

COUNTS (based on countable structures only)

Class	LA	OA	C	PCME(all)	PCME(asb)
a	0	0	0		
b	0	0	0		
c	0	0	0		
d	0	0	0		
e	0	0	0		
f	0	0	0		
Total	0	0	0	0	0
Check	OK	OK	OK		
Grand total	0	OK			

Lindsay  
 412 Portman Ave  
 Shed GF  
 HS/HTW

LOADING (s/cm2)

Class	LA	OA	C	PCME(all)	PCME(asb)
a	<DL	<DL	<DL		
b	<DL	<DL	<DL		
c	<DL	<DL	<DL		
d	<DL	<DL	<DL		
e	<DL	<DL	<DL		
f	<DL	<DL	<DL		
Total	<DL	<DL	<DL	<DL	<DL

RISK (air only)

Class	LA	OA	C	PCME(all)	PCME(asb)
a					
b					
c					
d					
e					
f					
Total					

Toxicity factors

Berman and Crump Feb 15, 1999

Type	Amphiboles		Chrysotile	
length (um)	5-10	>10	5-10	>10
Unit Risk (/cc)-1	5.74E-02	1.89E-01	2.20E-03	6.88E-01

IRIS (PCME)

Unit Risk (/cc)-1	0.23
-------------------	------

Type	Class	Length	Width	Aspect ratio
LA = Libby-type amphibole	a			<5
OA = Other amphibole	b	<5		>=5
C = Chrysotile	c		>.5	>=5
	d	>=5 to <5	<=.5	>=5
	e	5 to 10	<=.5	>=5
	f	>10	<=.5	>=5

USEPA REGION 8 LIBBY SITE INVESTIGATION v24a  
 TEM Asbestos Structure Count - ISO 10312

Version 24a



SAMPLE ID

Status Analyzed  
 EPA Sample Number 1D-00462  
 QA Type Not QA  
 Lab Sample Number 270300706-0002  
 Sample Type Dust  
 Category Field  
 Prep Indirect  
 Counting Rules 10312

PARAMETERS

Effective filter area 1295.0 mm2  
 Indirect factor 1.00E-01  
 Number of Grid Openings (amphibole) 10  
 Number of Grid Openings (chrysotile) 10  
 Grid opening area 0.0059 mm2  
 Volume (L) or Area (cm2) 300 cm2  
 Sensitivity (amphibole) 7.32E+02 s/cm2  
 Sensitivity (chrysotile) 7.32E+02 s/cm2

COUNTS (based on countable structures only)

Class	LA	OA	C	PCME(all)	PCME(asb)
a	0	0	0		
b	0	0	0		
c	0	0	0		
d	0	0	0		
e	0	0	0		
f	0	0	0		
Total	0	0	0	0	0
Check	OK	OK	OK		
Grand total	0	OK			

Lindsey  
 412 Farmer Ave  
 Chicken coop  
 GF HS/HTW

LOADING (s/cm2)

Class	LA	OA	C	PCME(all)	PCME(asb)
a	<DL	<DL	<DL		
b	<DL	<DL	<DL		
c	<DL	<DL	<DL		
d	<DL	<DL	<DL		
e	<DL	<DL	<DL		
f	<DL	<DL	<DL		
Total	<DL	<DL	<DL	<DL	<DL

RISK (air only)

Class	LA	OA	C	PCME(all)	PCME(asb)
a					
b					
c					
d					
e					
f					
Total					

Toxicity factors

Berman and Crump Feb 15, 1999

Type	Amphiboles		Chrysotile	
length (um)	5-10	>10	5-10	>10
Unit Risk (/cc)-1	5.74E-02	1.89E+01	2.20E-03	6.86E+01

IRIS (PCME)

Unit Risk (/cc)-1	0.23
-------------------	------

Type	Class	Length	Width	Aspect ratio
LA = Libby-type amphibole	a			<5
OA = Other amphibole	b	<.5		>= 5
C = Chrysotile	c		>.5	>= 5
	d	>= .5 to < 5	<=.5	>= 5
	e	5 to 10	<=.5	>= 5
	f	>10	<=.5	>= 5